



MSB-7272P2.ST25.txt
SEQUENCE LISTING

RECEIVED
AUG 08 2003
TECH CENTER 1600/2500

<110> BAYER CORPORATION

<120> Pituitary Adenylate Cyclase Activating Peptide (PACAP) Receptor 3 (R3)
Agonists and Their Pharmacological Methods of Use

<130> Bayer

<150> 09/407,832

<151> 1999-09-28

<150> 09/595,280

<151> 2000-06-15

<160> 341

<170> PatentIn version 3.1

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1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Lys Lys Tyr Leu Ala Ala
20 25 30

Val Arg His Gly
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<400> 62
Ser Trp Cys Glu Pro Gly Trp Cys Arg His Ser Asp Ala Val Phe Thr
1 5 10 15

Glu Asn Tyr Thr Lys Leu Arg Lys Gln Leu Ala Ala Lys Lys Tyr Leu
20 25 30

Asn Asp Leu Lys Lys Gly Gly Thr
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<400> 63

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Leu Ala Ala Lys Lys Tyr Leu Asn Asp Ile Leu Lys Gly Gly Thr
 20 25 30

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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
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Leu Ala Ala Lys Lys Tyr Leu Asn Asp Ile Leu Asn Gly Gly Thr
 20 25 30

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 1 5 10 15

Leu Ala Val Lys Lys Tyr Leu Asn Asp Ile Leu Lys Gly Gly Thr
 20 25 30

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<400> 66

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
 1 5 10 15

Leu Ala Ala Lys Lys Tyr Leu Ala Asp Val Lys Lys Gly Gly Thr
 20 25 30

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<400> 67

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
 1 5 10 15

Leu Ala Ala Lys Lys Tyr Leu Ala Asp Val Lys Lys
 20 25

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<400> 68

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1 5 10 15

Leu Ala Val Lys Lys Tyr Leu Ala Ala Val Lys Lys
20 25

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<400> 69

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Lys Lys
20 25

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1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Lys
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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg
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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr
20 25 30

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Leu Ala Ala Lys Lys Tyr Leu Asn Thr Ile Lys Asn Lys Arg Tyr
20 25 30

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 1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg Tyr
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<400> 75

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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr
 20 25 30

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<400> 76

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 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Thr Ile Lys Asn Lys Arg Tyr
 20 25 30

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His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg Tyr
 20 25 30

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<400> 78

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Leu Ala Ala Lys Lys Tyr Leu Asn Thr Ile Lys Asn Lys Arg Tyr
 20 25 30

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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala His Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg Tyr
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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys His Tyr Leu Asn Ser Ile Lys Asn Lys Arg Tyr
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Leu Ala Ala His Lys Tyr Leu Asn Thr Ile Lys Asn Lys Arg Tyr
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Leu Ala Ala Lys His Tyr Leu Asn Thr Ile Lys Asn Lys Arg Tyr
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 1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Lys Lys Arg
 20 25 30

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<400> 84

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 1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Lys Lys Arg
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 1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg Tyr
 20 25 30

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<400> 86

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Val Ala Val Lys Lys Tyr Leu Gln Ser Ile Lys Lys Lys Arg
 20 25 30

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<400> 87

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
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1 5 15

Val Ala Val Lys Lys Tyr Leu Gln Ser Ile Lys Lys Lys
20 25

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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Val Ala Val Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr
20 25 30

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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Leu Lys Lys Arg Tyr
20 25 30

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 1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Leu Lys Lys Arg
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 1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Leu Lys Lys
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Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys
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 1 5 10 15

Val Ala Val Lys Lys Tyr Leu Gln Ser Ile Leu Lys Lys Arg
 20 25 30

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 1 5 10 15

Val Ala Val Lys Lys Tyr Leu Gln Ser Ile Leu Lys Lys
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<400> 96

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 1 5 10 15

Val Ala Val Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys
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Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Leu Asn Lys Arg Tyr
 20 25 30

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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Leu Asn Lys Arg
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Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Leu Asn Lys
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1 5 10 15

Met Ala Cys Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg
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MSB-7272P2.ST25.txt

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Asp Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg
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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Phe Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg
20 25 30

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Met Ala Gly Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg
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Met Ala His Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg
 20 25 30

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 20 25 30

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 1 5 10 15

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 20 25 30

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Met Ala Leu Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg
 20 25 30

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Met Ala Met Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg
 20 25 30

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 20 25 30

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Met Ala Arg Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg
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Met Ala Ser Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg
 20 25 30

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Met Ala Thr Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg
 20 25 30

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<400> 116

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Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg
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Met Ala Trp Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg
 20 25 30

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<400> 118

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
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Met Ala Tyr Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg
 20 25 30

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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Ala Asn Lys Arg
 20 25 30

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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
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MSB-7272P2.ST25.txt

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Cys Asn Lys Arg
20 25 30

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20 25 30

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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Glu Asn Lys Arg
20 25 30

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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Gly Arg
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MSB-7272P2.ST25.txt

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MSB-7272P2.ST25.txt

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MSB-7272P2.ST25.txt

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 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Arg Ile
 20 25 30

<210> 323
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<400> 323

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Met Ala Gly Lys Lys Tyr Leu Asn Ser Ile Lys Asn Arg Ile
 20 25 30

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 1 5 10 15

Met Ala Lys Lys Lys Tyr Leu Asn Ser Ile Lys Asn Arg Ile
 20 25 30

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Met Ala Arg Lys Lys Tyr Leu Asn Ser Ile Lys Asn Arg Ile
 20 25 30

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Met Ala Ser Lys Lys Tyr Leu Asn Ser Ile Lys Asn Arg Ile
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 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Pro Asn Arg Ile
 20 25 30

<210> 328

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Met Ala Gly Lys Lys Tyr Leu Asn Ser Ile Pro Asn Arg Ile
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Met Ala Lys Lys Lys Tyr Leu Asn Ser Ile Pro Asn Arg Ile
20 25 30

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Met Ala Arg Lys Lys Tyr Leu Asn Ser Ile Pro Asn Arg Ile
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Met Ala Ser Lys Lys Tyr Leu Asn Ser Ile Pro Asn Arg Ile
20 25 30

MSB-7272P2.ST25.txt

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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Gln Asn Arg Ile
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Met Ala Gly Lys Lys Tyr Leu Asn Ser Ile Gln Asn Arg Ile
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MSB-7272P2.ST25.txt

Met Ala Lys Lys Lys Tyr Leu Asn Ser Ile Gln Asn Arg Ile
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Met Ala Arg Lys Lys Tyr Leu Asn Ser Ile Gln Asn Arg Ile
20 25 30

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Met Ala Ser Lys Lys Tyr Leu Asn Ser Ile Gln Asn Arg Ile
20 25 30

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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Arg Asn Arg Ile
 20 25 30

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 1 5 10 15

Met Ala Gly Lys Lys Tyr Leu Asn Ser Ile Arg Asn Arg Ile
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Met Ala Lys Lys Lys Tyr Leu Asn Ser Ile Arg Asn Arg Ile
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Met Ala Arg Lys Lys Tyr Leu Asn Ser Ile Arg Asn Arg Ile
 20 25 30

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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
 1 5 10 15

Met Ala Ser Lys Lys Tyr Leu Asn Ser Ile Arg Asn Arg Ile
 20 25 30

<210> 342
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<400> 342

Cys Arg Lys Gln Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn
 1 5 10 15

Lys Arg Tyr

MSB-7272P2.ST25.txt

<210> 343
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<400> 9

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